

AMENDMENTS TO THE CLAIMS

1.-72. (Canceled)

73. (Currently Amended) A method of inhibiting hematopoietic cell survival comprising consisting of:

mutating at least one of the residues of a binding motif of expressing a GM-CSF/IL-3/IL-5 receptor of in a hematopoietic cell, wherein the receptor has a beta-chain having an amino acid sequence according to SEQ ID NO: 1 wherein the and the binding motif has the amino acid sequence 598HSRSLP⁶⁰³ of the beta-chain comprises one or more substitution mutations, the amino acid sequence 598HSRSLP⁶⁰³ has a substitution mutation at the serine residue at position 601, and the expression of the mutant receptor inhibits survival of the hematopoietic cell.

74. (Canceled)

75. (Currently Amended) A method according to claim 73, wherein at least two (2) amino acids at any position from 598-603 position 598 to position 603 are mutated.

76. (Previously Presented) A method according to claim 73, wherein the hematopoietic cell is a leukocyte.

77. (Previously Presented) A method according to claim 73, wherein the mutation of the binding motif inhibits phosphorylation of the binding motif.

78. (Canceled)

79. (Currently Amended) A method according to claim 73, wherein mutation of at least two (2) amino acids at any position from 598-603 position 598 to position 603 are mutated and inhibit inhibits phosphorylation of the binding motif.